

DERWENT-ACC- 2003-618969

NO:

DERWENT-WEEK: 200359

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TITLE: Solid supported noble metal catalyst
for fuel cell

INVENTOR: XIN, Q; ZHOU, W ; ZHOU, Z

PATENT- DALIAN CHEM & PHYSICAL INST CHINESE
ASSIGNEE: ACAD [DALIN]

PRIORITY-DATA: 2001CN-0144123 (December 11, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1425499	A June 25, 2003	N/A	000	B01J 023/38

APPLICATION-DATA:

PUB-NO	APPL- DESCRIPTOR	APPL-NO	APPL-DATE
CN 1425499A	N/A	2001CN- 0144123	December 11, 2001

INT-CL (IPC): B01J023/38, B01J037/03

ABSTRACTED-PUB-NO: CN 1425499A

BASIC-ABSTRACT:

NOVELTY - The supported noble metal catalyst has any one of Ru, Rh, Pd, Os, Ir, Pt, Au, Ag, Cu and Ni as the active component; and any one of active carbon, graphite, carbon nanotube, Al₂O₃, SiO₂, molecular sieve, MgO and TiO₂ as the carrier. Its active component accounts for 0.1-90 % and metal particle size of 0.5-6 nm.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method of preparing the above catalyst, by dispersing the active component, hydroxide or carbonate of alkali metal or alkali earth metal and carrier in solvent separately; mixing in certain proportion, heating the solution, adding nitric acid, sulfuric acid, hydrochloric acid, oxalic acid or acetic acid as precipitation promoter; and stoving.

USE - As catalyst for fuel cell

ADVANTAGE - The novel catalyst ensures that the fuel cell possess high performance.

CHOSEN- Dwg.0/0

DRAWING:

TITLE-TERMS: SOLID SUPPORT NOBLE METAL CATALYST
FUEL CELL

DERWENT-CLASS: J04 L03 X16

CPI- J04-E04; L03-E04; N02-C01; N02-D01; N02-E;
CODES: N02-F; N06-E01; N07-L03A;
EPI- X16-E06A;
CODES:

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2003-168968

Non-CPI Secondary Accession Numbers: N2003-493003